NEC **Express5800/120Bb-m6**

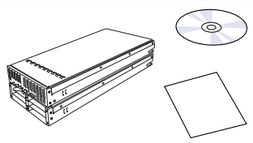
Getting Started!

Read this Guide First.

Getting Started describes the procedures necessary for running the server after you unpack the product. Follow these steps to complete your installation successfully.

856-126393-522-00 Rev.01, 4-2008

Preface



Unpack the carton box and make sure that you have everything and that individual components are not damaged.

Note See the attached packing list.

The "NEC EXPRESSBUILDER" DVD is to be used when setting up (or resetting up) your server, therefore store them in a designated place. We recommend you to print out the "User's Guide" stored in the "NEC EXPRESSBUILDER" DVD and read it along with this guide before setting up your server. See the "NEC EXPRESSBUILDER" on the rear face of this guide.

⚠SAFETY INDICATION

Refer to the following items of the User's Guide and follow the instructions for your safety to setup the server:

"SYMBOLS USED IN THIS USER'S GUIDE AND WARNING LABELS" and "SAFETY INDICATION"

⚠ WARNING

- Do not disconnect/connect the power plug while your hands are wet. Failure to follow this warning may cause an electric shock.
- Make sure to power off the CPU blade and take out the CPU blade from the blade enclosure before installing/removing internal optional devices.
- If it starts thundering, do not touch any part of the server including the cables. Failure to follow this warning may cause an electric shock.
- Never attempt to disassemble, repair, or alter the server on any occasion other than described in this User's Guide.

⚠ CAUTION

- At least four persons are required to carry the blade enclosure. Firmly hold the handle on the blade enclosure while carrying the blade enclosure.
- Do not install the server in dusty, humid, smoke or oily place. Also avoid installing the server in a place exposed to direct sunlight.
- Use the power cord that comes with your blade enclosure or NEC-specified power cord.
- Plug in to a proper power source.
- Do not install the enclosure where you need an extension cord.

Blade Enclosure

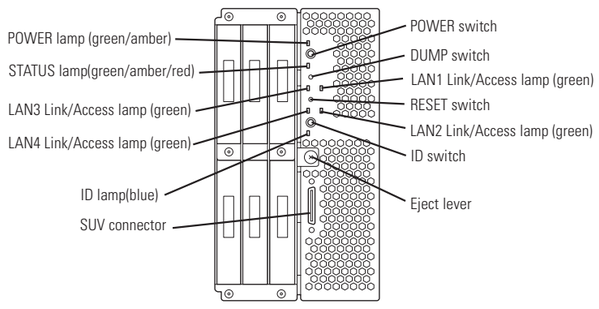
The blade enclosure is the rack mount chassis exclusively used to be equipped with CPU blades and power supply unit. The blade enclosure is installed in the NEC rack or NEC-recommended rack conforming to the EIA standard.

Note Refer to blade enclosure User's Guide for detail.

CPU Blade

The CPU blade can be equipped with memory module and additional board.

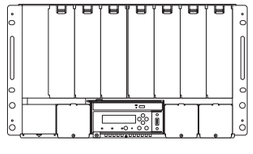
Note For options, refer to Chapter 9 of the User's Guide stored in the provided DVD-ROM.



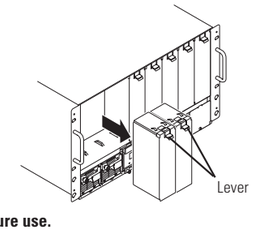
Important **Make sure that the blade enclosure does not contain any CPU blade. Install the blade enclosure in the rack. Then, install the CPU blade in the blade enclosure.**

Note Refer to Chapter 2 of the User's Guide stored in DVD-ROM.

<Installation of CPU blades>

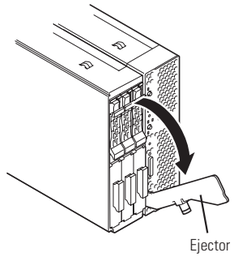


(1) If an optional slot cover is installed on the slot on which the CPU blade is to be installed, remove it. Unlock the CPU blade by holding the lever at the front, pull out the CPU blade, and then remove the slot cover.

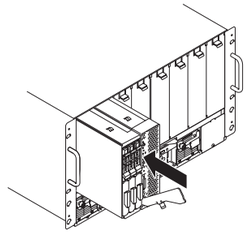


Important **Keep the removed slot cover for future use.**
Do not remove the slot cover from any other slot.
The CPU blade can be installed in the following slots of Blade Enclosure(SIGMABLADE-M).
- **Slots 1 and 2**
- **Slots 3 and 4**
- **Slots 5 and 6**
- **Slots 7 and 8**

(2) Gently put the CPU blade on the clean, rigid, and flat desk. Loosen the screw of the ejector to allow the ejector to be opened.

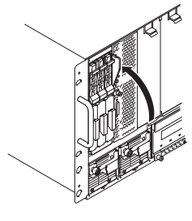


(3) Hold the frame of the CPU blade so that its MP connector faces the Blade Enclosure and the hard disk drive downward.

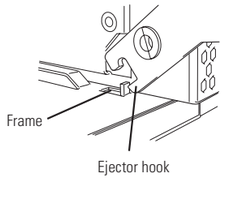


Important **Do not hold the ejector to install the CPU blade in the Blade Enclosure. The ejector may be disengaged from the CPU blade that causes the CPU blade to fall down. Or, the ejector may be bent that causes damage to the CPU blade.**

(4) Align the frame of the CPU blade with the guide rails of the blade enclosure, and insert the CPU blade into the end of blade enclosure slowly and carefully.



Important **Make sure that the ejector hook is hit to the frame of the blade enclosure, as shown in the figure.**

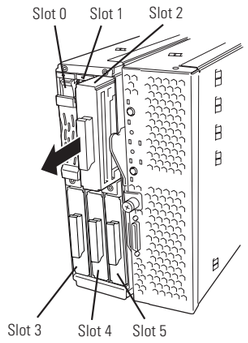


(5) Firmly push in the ejector of the CPU blade, and push the frame at the front of the blade enclosure. Then, tighten the screw of the ejector to fix the CPU blade to the blade enclosure.

Hard Disk Drive

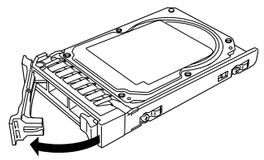
Up to six hard disk drives can be connected to a CPU blade. Each drive must be installed in a drive carrier. (To order a disk with a carrier, contact your sales representative or dealer.)

1. To install a hard disk drive in the slot 1 and the subsequent slot, remove a hard disk tray from the slot to install a hard disk drive.



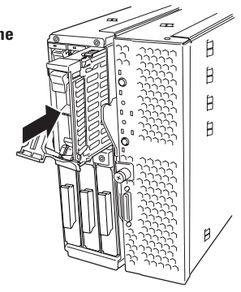
Important **Keep the removed hard disk tray for future use.**

2. Release the lock of the lever on the hard disk drive to make the lever opened.



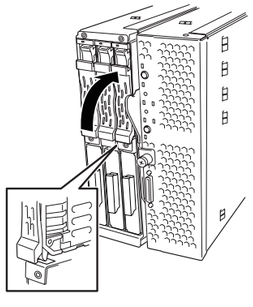
3. Hold the hard disk drive so that the BP connector faces the storage unit and the lever on the front of the drive carrier faces the top.

4. Insert the end of the drive carrier into the hard disk drive slot slowly and carefully.



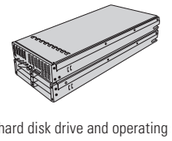
5. Insert the drive carrier until it hits the slot end, and lift the lever.

Important **Make sure that the hook below the lever is hung on the frame.**



Model

Diskless model



Prepare the hard disk drive and operating system separately.

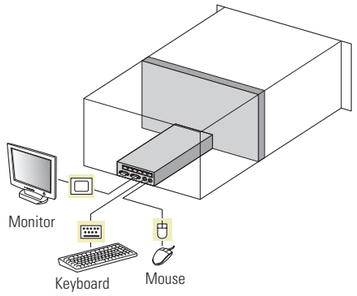
Installing Options

Install the optional devices required for the CPU blade and the blade enclosure.

Note Refer to blade enclosure User's Guide for detail.

Cable Connection

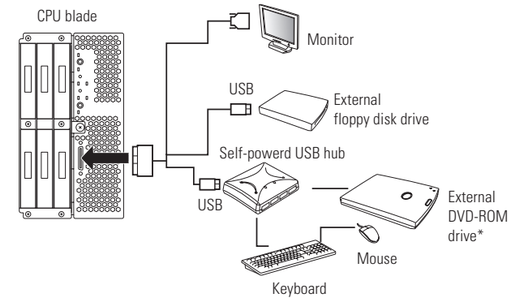
The keyboard, mouse, display unit, and network devices are connected to the Connector board in the blade enclosure that is connected with the MP connector at the rear of the blade enclosure.



The SUV connector on the front of the CPU blade is not used in normal operation. Use the SUV connector in the following cases:

- Installing OS (when the CPU blade is installed in blade enclosure(10U))
- Maintenance
- Updating BIOS and firmware

Connect the K410-150(00) SUV cable (separately priced, or provided with the Blade Enclosure) to the SUV connector. Then, connect peripheral devices to the connectors of SUV cable.



*** When you use the N8460-009 external DVD-ROM drive, use the branch USB cable provided with the CPU blade.**

Note Refer to Chapter 2 of the User's Guide stored in DVD-ROM.

Finally, connect the power cord coming with the power supply unit to the AC inlet of power supply unit at the rear of the blade enclosure and the AC outlet for 200-240 VAC.

Important **The power cord coming with the power supply unit can be exclusively used for the 200-240 VAC power. Connect the power cord only to an AC outlet for 200-240 VAC.**

Go on to the next page.

856-126393-522-00

Installing the Operating System

Install the Operating System (Windows Server 2003 x64 Editions/Windows Server 2003).

Note Refer to Chapter 5 of the User's Guide in the DVD-ROM for details on the setup procedure.

Configuring Subsystems

Configure the subsystems such as network, graphics accelerator, and so on.

Note Refer to "Setup of Device Driver" in Chapter 5 of the User's Guide in the DVD-ROM for details on the setup procedure.

Advanced Settings

Setup the debug information, Windows Dr. Watson, and network monitor in advance so that your server can recover from any trouble precisely and as soon as possible when it should occur.

Note Refer to "Setting for Solving Problems" in Chapter 5 of the User's Guide in the DVD-ROM for details on the setup procedure.

Updating the System

Use the NEC EXPRESSBUILDER DVD to install the update modules.

Note Refer to "Updating the System" in Chapter 5 of the User's Guide in the DVD-ROM for details on the setup procedure.

Configuring Terminal Service

Use the Windows operating system DVD-ROM to configure the terminal service.

Note Refer to "Terminal Service" in Chapter 5 of the User's Guide in the DVD-ROM for details on the setup procedure.

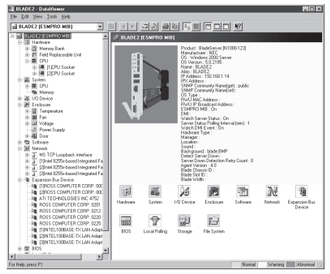
Server Management Utilities

Install and set up various utilities that manage overall system operation supported by the NEC Express5800 series. Set up the utilities in accordance with the operating environment in order to reduce TCO (Total Cost of Ownership), prevent serious failures, and make quick recovery if a failure occurs.
This section introduces various utilities that are already installed in the hard disk drive of the customized installation model. (Some utilities are installed with the default values. Set up the utilities with suitable values according to the document.)

Note For installation and setup, refer to Chapter 6 of the User's Guide contained in the DVD-ROM or the online document. Utilities not mentioned here are explained in the User's Guide or online document.

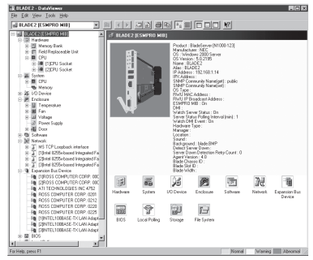
NEC ESMPRO Agent

This utility monitors the system internal temperature, the fan status, and the hard disk drive status. If a server error or failure occurs, the utility automatically turns off the server and sends the report to the computer for monitoring the server. (NEC ESMPRO Agent does not need any setup in particular.) The status of the system containing NEC ESMPRO Agent can be viewed on the display of the management PC (NEC ESMPRO Manager).



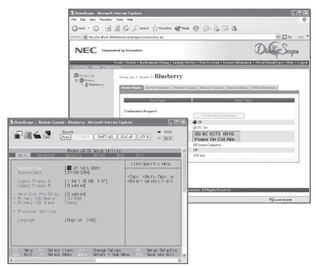
NEC ESMPRO Manager

Linked with NEC ESMPRO Agent installed in CPU blade, this utility enables the monitoring of the overall system.



DianaScope

DianaScope is a software to manage servers by remote control.

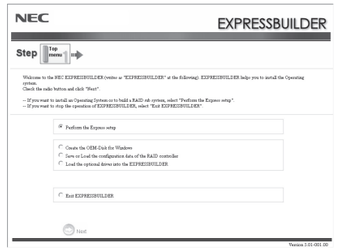


NEC EXPRESSBUILDER

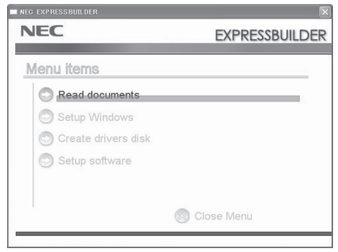
Run the NEC EXPRESSBUILDER DVD to:

- ❑ Run the maintenance utilities.
- ❑ Create driver floppy disks, BIOS update floppy disks and so on.

To run the NEC EXPRESSBUILDER DVD, insert the DVD-ROM into the DVD-ROM drive connected to the CPU blade, reboot the system and follow the screen prompts.



Put the NEC EXPRESSBUILDER DVD in the DVD-ROM drive on a system running Microsoft Windows (Windows XP, Vista, Windows Server 2003 or later).
The following menu will appear automatically.
If the menu does not appear, select "My computer" by using the Explorer, and double-click the icon of the DVD drive that contains the EXPRESSBUILDER DVD.



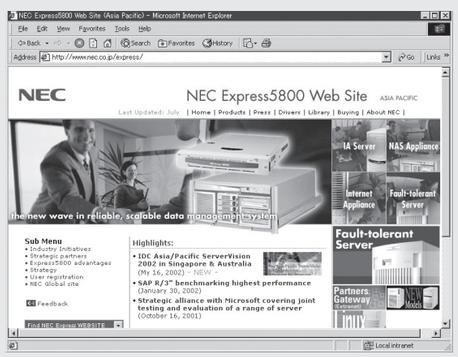
Use this menu to:

- ❑ Install the management software (see "Server Management Utilities").
- ❑ Read documentation.
  - –User's Guide (this is explaining about detailed information)
  - –Online documents (these are explaining about the installation of the software)

Note Some documents are written in the PDF file format. Use Adobe Acrobat Reader to view or print these documents.

NEC Express5800 Web Site

http://www.nec.co.jp/express/



Trademark

NEC ESMPRO is a trademark of NEC Corporation. All other product, brand, or trade names used in this publication are the trademarks or registered trademarks of their respective trademark owners.

© 2008 NEC Corporation All rights reserved.
No part of this publication may be reproduced, photocopied, stored on a retrieval system, or transmitted without the express written consent of the publisher.